

# Sequence Protocol

<110> metaGen Gesellschaft für Genomforschung mbH

<120> Human Nucleic Acid Sequences from Hysteromyomic Tissue

<140> PCT/DE99/01178

<141> 1999-04-14

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<213> homo sapiens

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 <212> DNA  
 <213> homo sapiens

<400> 6

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<211> 2367

<212> DNA

<213> homo sapiens

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2367

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<211> 568

<212> DNA

<213> homo sapiens

<400> 8

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 <213> homo sapiens

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<400> 10

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tccacctacg gaagcgggag tgagcgcccc gcctcgctcg gctgcccccg ccccttccccg780  
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<210> 22  
<211> 546  
<212> DNA  
<213> homo sapiens

<400> 22

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aaactgggtc ccaatgatca atacaagttc tactcagtga atgtggatta cagcaagctg360  
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ggctcttcag aagccacatc cgcacaattt tccacttaac caggaaatat ttctcctctt480
aatgaatga aatcaatggg ggggggcgct attggaagcc ctattggggg tcaagtgttg540
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546

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<210> 23  
 <211> 1591  
 <212> DNA  
 <213> homo sapiens

<400> 23

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aacagtaaga ccgaggacca gcgcaacgag gagaaggcgc aggtgaggcc aacaaaaaga 120
tcgagaagca gctgcagaag gacaagcagg tctaccgggc cacgcaccgc ctgctgctgc 180
tggtgtctgg agaattctgg aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta 240
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aagaggcgat tgaaccatt gtggccgcca tgagcaacct ggtgcccccc gtggagctgg 360
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1591

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<210> 24  
 <211> 441  
 <212> DNA  
 <213> homo sapiens

<400> 24

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aacagctgag gaagctcttc attggagggt tgagctttga aacaactgat gagagcctga180
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ctatgaatgc aaggccacac aagggtggatg gaagagttgt ggaaccaaag agagctgttt360
cagagaagat ttgaaaagcc aggtgccact tacctgtgaa aaggtatttg ttggtggatt420
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441

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<210> 25  
 <211> 1131  
 <212> DNA  
 <213> homo sapiens

<400> 25

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catgccccaa	agaaaggctg	aaggggatgc	taaggagat	aaagcaaagg	tgaaggacga	240
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gcctaaaaag	gccccctgcaa	agaagggaga	gaaggtagcc	aaagggaaaa	agggaaaaagc	360
tgatgctggc	aaggagggga	ataaccctgc	agaaaatgga	gatgccaaaa	cagaccaggc	420
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acttctgggtg	actgtacagt	ttgaaatact	atTTTTtTatc	aagttttata	aaaatgcaga	540
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tctagattgt	ggatcttcag	ataaattctg	ccattttcat	ttcacttctt	gaaagtcagg	1020
gtcggcttgt	gaaaagttgt	taaacaacat	gctaaatgtg	aaatgtcaac	cctcactcta	1080
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<210> 26

<211> 1071

<212> DNA

<213> homo sapiens

<400> 26

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agtgttgttt	cctgcaacga	tcacgaacat	gaacatcaaa	ggatcgccat	ggaaagggtc	180
cctcctgctg	ctgctgggtg	caaacctgct	cctgtgcccag	agcgtggccc	ccttgcccat	240
ctgtccccgc	ggggctgccc	gatgccaggt	gaccttctga	gacctgtttg	accgcgccgt	300
cgtcctgtcc	cactacatcc	ataacctctc	ctcagaaatg	ttcagcgaat	tcgataaacg	360
gtatacccat	ggccgggggt	tcattacca	ggccatcaac	agctgccaca	cttcttccct	420
tgccaccccc	gaagacaagg	agcaagccca	acagatgaat	caaaaagact	ttctgagcct	480
gatagtcagc	atattgcat	cctggaatga	gcctctgtat	catctgggtc	cggaagtacg	540
tggtatgcaa	gaagccccgg	aggctatcct	atccaaagct	gtagagattg	aggagcaaac	600
caaacggctt	ctagagggca	tggagctgat	agtcagccag	gttcatcctg	aaaccaaaga	660
aaatgagatc	taccctgtct	ggtcgggact	tccatccctg	cagatggctg	atgaagagtc	720
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caattattctc	aagctcctga	agtgccgaat	actccacaac	aacaactgct	aagcccat	840
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gactccttag	agacatcaaa	atctaaaaaa	acttaatggg	ccgggcgcag	tggtcatgg	1020
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<210> 27

<211> 896

<212> DNA

<213> homo sapiens

<400> 27

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tcctcctcac	cctcctcgcc	ctgctggcgc	tcacctccgc	ggtcgccaaa	aagaaagata	180
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ccagcagcaa	ggattgcggc	gtgggtttcc	gcgagggcac	ctgcggggcc	cagaccagc	300
gcatccgggtg	cagggtgccc	tgcaactgga	agaaggagtt	tggagccgac	tgcaagtaca	360
agtttgagaa	ctggggtgcg	tgtgatggg	gcacaggcac	caaagtccgc	caaggcaccc	420
tgaagaaggc	gcgtataaat	gctcagtgcc	aggagaccat	ccgcgtcacc	aagccctgca	480
cccccaagac	caaagcaaag	gccaaagcca	agaaagggaa	gggaaaggac	tagacgccaa	540
gcctggatgc	caaggagccc	ctggtgtcac	atggggcctg	gcccacgccc	tcctctccc	600
aggcccagga	tgtgaccac	cagtgccttc	tgtctgctcg	ttagcttta	tcaatcatgc	660

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cctgccttgt cctctcact cccagcccc acccctaagt gcccaaagtg gggagggaca720
agggattctg ggaagcttga gcctccccc aagcaatgtg agtcccagag cccgcttttg780
ttcttcccc caattccatt actaagaaac acatcaaata aactgacttt tccccccaa840
aaaaagctct tcttttttaa tataaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaa      896

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<210> 28  
 <211> 1050  
 <212> DNA  
 <213> homo sapiens

<400> 28

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ccattcctac caaaggaaga aaggctggc tctccacccc ctgtaggaaa ggcctgcctt 180
gtaagacacc acaattcggc tgaatctgaa gtcttgtgtt ttactaatgg aaaaaaaaaa 240
tacagaagag gttttgttct catggctgcc caccgcagcc tggcactaaa acagcccagc 300
gctcacttct gcttggagaa atattctttg ctcttttgga catcaggctt gatggtatca 360
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tgaactagtc tcaaagtctc atccacagag cggccaacag ggaggtcatt tacagtgatc 480
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gcctttaaga ccccataatc ctgagcaatg gtgcgcttcg ggtctgatac caaaggaatg 600
ttcatgggtc ccagtcctcc ttgtttctta ggtgtattga cccatgctag atgacagaag 660
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acaagacgcg caagagctct ccggggcgct gcctttatag ccagtaggga tctcgccaca1020
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<210> 29  
 <211> 581  
 <212> DNA  
 <213> homo sapiens

<400> 29

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ttgggtccgc gttccctgca caaaatgccc ggcgaacacc agaaaccgtc cctgctacag120
agcaggaggt gccgcagccc caggctgaga cagggtctgg aacagaatct gacagtgatg180
aatcagtagc agagcttgaa gaacaggatt ccaccagggc aaccacacaa caagcccagc240
tgccggcagc agctgaaatc gatgaagaac cagtcagtaa agcaaaacag agtcggagtg300
aaaagaaggc acggaaggct atgtccaaac tgggtcttcg gcagggttaca ggagttacta360
gagtcactat ccggaaatct aagaatatcc tctttgtcat cacaaaacca gttgtctaca420
agagccctgc ttcagatagc tacatagttt ttgggggaagc cagatcgaag attatcccag480
caagcacaaac tagcagctgc tgagaagtca agttcagggtg aactgtctca acgttcagga540
aacccccggc ttccactgta gagggggagt aaggggaggg t

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<210> 30  
 <211> 264  
 <212> DNA  
 <213> homo sapiens

<400> 30

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gggactatgt tgtgagcctg cgaaagaagt ttgtgtgggg actgtgggca gtgaatgcgt 60
tggaacaat atggaaaact gggagctgcc ctacagttct cccaagttg gactcacttt120
cgggggtgtc caaaagcctg attccagggc ctgctagccc gaccccggtg acgcctccac180
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aaaacagccg gcgggcggcg agac

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<210> 31

<211> 111  
<212> DNA  
<213> homo sapiens

<400> 31

cggcgaatca cttataaatg gcgccgaagc aggagcccgaggctaaatt gcaggagggg 60  
tgagcgaatg ctgtgctttc atgggcctct tacgttgatg aggcaaagta t 111

<210> 32  
<211> 76  
<212> PRT  
<213> homo sapiens

<400> 32

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1				5					10					15	
Pro	Pro	Ala	Ala	Val	Gly	Phe	Ser	Thr	Gln	Asn	Pro	Gly	Val	Gly	Asp
			20					25					30		
Ser	Glu	Ser	Asn	Leu	Phe	Ser	Leu	Pro	Phe	Leu	Gly	Ser	Lys	Ala	Asn
		35					40					45			
Pro	Ile	Pro	Thr	His	Trp	Ser	Ser	Ala	Leu	Ile	Phe	Asn	Leu	Pro	Ser
	50					55					60				
Pro	Pro	Phe	Gln	Asn	Thr	His	Ile	Pro	Phe	Gln	Asn				
65					70					75					

<210> 33  
<211> 72  
<212> PRT  
<213> homo sapiens

<400> 33

Ser	Ser	Phe	Leu	Phe	Ser	Phe	Gln	Thr	Gln	Phe	His	Lys	Asn	Arg	Lys
1				5					10					15	
Asp	Lys	Val	Phe	Ser	Ser	Arg	Gln	Ala	Lys	Pro	Phe	Pro	His	His	Gln
			20					25					30		
Ser	Ile	Leu	Lys	Ile	His	Glu	Glu	Val	Glu	Arg	Ser	Val	Ser	Gly	Arg
		35					40					45			
Leu	Lys	Gly	Ser	Ser	Ser	Ser	Asn	Pro	Thr	Ala	Ala	Glu	Lys	Ile	Glu
	50					55					60				
Ile	Glu	Ile	Leu	Lys	Ile	Thr	Ser								
65					70										

<210> 34  
<211> 70  
<212> PRT  
<213> homo sapiens

<400> 34

Lys	Lys	Leu	Asp	Tyr	Phe	Cys	Ala	Glu	Ile	Lys	Asn	Ser	His	Cys	Lys
1				5					10					15	

Thr	Lys	Ile	Lys 20	Ile	Ala	Gln	Ile	Arg 25	Lys	Pro	Gly	Gly	Ala 30	Lys	Cys
Gln	Val	Ser 35	Lys	Val	His	Phe	Phe 40	Ser	Leu	Ser	Lys	Arg 45	Ser	Ser	Thr
Lys	Thr 50	Ala	Arg	Ile	Lys	Phe 55	Ser	Val	Ala	Asp	Lys 60	Gln	Ser	Pro	Phe
His 65	Ile	Ile	Asn	Gln	Ser 70										

<210> 35  
 <211> 60  
 <212> PRT  
 <213> homo sapiens

<400> 35

Ser 1	Ser	Gly	Pro	Ala 5	Pro	Gly	Cys	Ser	Pro 10	Phe	Ala	Gly	Thr	Arg 15	Lys
Asn	Phe	Pro	Ser 20	Met	Val	Val	Leu	Glu 25	Arg	Thr	Phe	Leu	Lys 30	Ile	Asn
Tyr	Ile	Phe 35	Leu	Cys	Ile	Pro	Met 40	Glu	Phe	Gln	Phe	Ile 45	Arg	Cys	Ser
Pro	Trp 50	Pro	Pro	Gln	Asn	Thr 55	Glu	Val	Ile	Pro	Ala 60				

<210> 36  
 <211> 63  
 <212> PRT  
 <213> homo sapiens

<400> 36

Ala 1	Ser	Gly	Val	His 5	Thr	Glu	Thr	His	Arg 10	Tyr	Asn	Leu	Leu	Ser 15	Ala
Lys	Ser	Arg	Lys 20	Lys	Gly	Trp	Gly	Tyr 25	Leu	Gly	Trp	Leu	Gly 30	Phe	Asp
Phe	Leu	Leu 35	Val	Cys	Leu	Phe	Cys 40	Thr	Lys	Thr	Val	Leu 45	Ser	Phe	Glu
Tyr	Arg 50	Arg	Asp	Ile	Ser	Ile 55	Tyr	Met	Leu	Ser	Asn 60	Gln	Asp	Gly	

<210> 37  
 <211> 170  
 <212> PRT  
 <213> homo sapiens

<400> 37

Ala 1	Arg	Ala	Ala	Arg 5	Ala	Ala	Gln	Thr	Pro 10	His	Leu	Thr	Leu	Pro 15	Ala
Asp	Leu	Gln	Thr 20	Leu	His	Leu	Asn	Arg 25	Pro	Thr	Leu	Ser	Pro 30	Glu	Ser

Lys	Leu	Glu 35	Trp	Asn	Asn	Asp	Ile 40	Pro	Glu	Val	Asn	His 45	Leu	Asn	Ser
Glu	His 50	Trp	Arg	Lys	Thr	Glu 55	Lys	Trp	Thr	Gly	His 60	Glu	Glu	Thr	Asn
His 65	Leu	Glu	Thr	Asp	Phe 70	Ser	Gly	Asp	Gly	Met 75	Thr	Glu	Leu	Glu	Leu 80
Gly	Pro	Ser	Pro	Arg 85	Leu	Gln	Pro	Ile	Arg 90	Arg	His	Pro	Lys	Glu 95	Leu
Pro	Gln	Tyr	Gly 100	Gly	Pro	Gly	Lys	Asp 105	Ile	Phe	Glu	Asp	Gln 110	Leu	Tyr
Leu	Pro	Val 115	His	Ser	Asp	Gly	Ile 120	Ser	Val	His	Gln	Met 125	Phe	Thr	Met
Ala	Thr 130	Ala	Glu	His	Arg	Ser 135	Asn	Ser	Ser	Ile	Ala 140	Gly	Lys	Met	Leu
Thr 145	Lys	Val	Glu	Lys	Asn 150	His	Glu	Lys	Glu	Lys 155	Ser	Gln	His	Leu	Glu 160
Gly	Ser	Ala	Ser	Ser 165	Ser	Leu	Ser	Ser	Asp 170						

<210> 38

<211> 144

<212> PRT

<213> homo sapiens

<400> 38

Ala 1	Arg	Ala	Pro	Thr 5	Leu	Asp	Met	Arg	Phe 10	Arg	Arg	Arg	Leu	Ser 15	Ala
Asp	Pro	His	Ala 20	Thr	Gln	Arg	Asn	Ser 25	Ala	Glu	Ala	Arg	Gly 30	Thr	Met
Asp	Gly	Arg 35	Val	Gln	Leu	Met	Lys 40	Ala	Leu	Leu	Ala	Gly 45	Pro	Leu	Arg
Pro	Ala 50	Ala	Arg	Arg	Trp	Arg 55	Asn	Pro	Ile	Pro	Phe 60	Pro	Glu	Thr	Phe

Asp 65	Gly	Asp	Thr	Asp	Arg 70	Leu	Pro	Glu	Phe	Ile 75	Val	Gln	Thr	Cys	Ser 80
Tyr	Met	Phe	Val	Asp 85	Glu	Asn	Thr	Phe	Ser 90	Asn	Asp	Ala	Leu	Lys 95	Val
Thr	Phe	Leu	Ile 100	Thr	Arg	Leu	Thr	Gly 105	Pro	Ala	Leu	Gln	Trp 110	Val	Ile
Pro	Tyr	Ile 115	Arg	Lys	Glu	Ser	Pro 120	Leu	Leu	Asn	Asp	Tyr 125	Arg	Gly	Phe
Leu	Ala 130	Glu	Met	Lys	Arg	Val 135	Phe	Gly	Trp	Glu	Glu 140	Asp	Glu	Asp	Phe

<210> 39

<211> 178



<212> PRT  
 <213> homo sapiens

<400> 39

His 1	Ser	Leu	Gly	Arg 5	Ala	Pro	Val	Glu	Thr 10	Leu	Ala	Val	Ala	Thr 15	Gly
Thr	Ala	Asn 20	Ser	Ser	Gln	Ser	Thr	Arg 25	Pro	Gln	Ala	Arg	Gly 30	Ser	Pro
Gly	Leu	Glu 35	Val	Leu	Val	Leu	Leu 40	Pro	Ser	Lys	Asp	Ser 45	Leu	His	Leu
Gly	Gln 50	Lys	Ala	Pro	Val	Ile 55	Ile	Glu	Gln	Gly	Ala 60	Leu	Leu	Pro	Asp
Val 65	Gly	Asp	His	Pro	Leu 70	Gln	Gly	Trp	Pro	Arg 75	Glu	Ala	Gly	Asp	Glu 80
Glu	Arg	His	Leu	Gln 85	Gly	Val	Val	Gly	Glu 90	Arg	Val	Leu	Val	His 95	Glu
His	Val	Gly	Ala 100	Arg	Leu	His	Asp	Glu 105	Leu	Arg	Glu	Ser	Val 110	Gly	Ile
Ser	Val	Lys 115	Arg	Leu	Gly	Lys	Gly 120	Asn	Arg	Val	Pro	Pro 125	Ala	Thr	Arg
Arg	Gly 130	Pro	Glu	Gly	Pro	Gly 135	Gln	Glu	Gly	Leu	His 140	Gln	Leu	His	Pro
Thr 145	Val	His	Arg	Ala	Ala 150	Arg	Leu	Arg	Gly	Val 155	Ser	Leu	Gly	Cys	Val 160
Gly	Val	Ser	Ala	Lys 165	Ala	Ser	Pro	Glu	Ala 170	His	Val	Glu	Gly	Gly 175	Gly

Pro Gly

<210> 40  
 <211> 89  
 <212> PRT  
 <213> homo sapiens

<400> 40

Lys 1	Leu	Thr	Gly	Ile 5	Asn	Thr	Gly	Cys	Arg 10	Asn	Met	Leu	Ala	Leu 15	Cys
Ile	Arg	Gly	His 20	Ala	Gln	Gln	Ile	Gln 25	Glu	Ile	Tyr	Leu	Ala 30	Thr	Phe
Ser	Arg	Lys 35	Gly	Thr	Leu	Gly	Ile 40	Ile	His	Tyr	Ile	Leu 45	Glu	Val	Phe
Leu	Gly 50	Phe	Phe	Phe	Phe	Phe 55	Leu	Arg	Gln	Ser	Cys 60	Cys	Ile	Ala	Gln
Ala 65	Gly	Ser	Val	Val	Ala 70	Gln	Ser	Gln	Leu	Ile 75	Ala	Ser	Ser	Ile	Thr 80
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<210> 41  
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 <213> homo sapiens

<400> 41

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Pro	Phe	Val	Arg 20	Ile	Gly	Ile	Phe	Arg 25	Leu	Leu	Lys	Gly	Leu 30	Ala	His
Ile	Arg	Cys 35	Asp	Leu	Phe	Ile	Pro 40	Val	Val	Met	Glu	Gly 45	His	Ile	Cys
Gln	Ser 50	Leu	Glu	Ser	Ala	Lys 55	Ala	Gly	Thr	Arg	Phe 60	Pro	Gly	Pro	Gln
Trp 65	Gly	Cys	Ala	Asn	Pro 70	Arg	Glu	Leu	Gly	Cys 75	Lys	Phe	Val	Lys	Asn 80
Gln	His	His	Val	Trp 85	Gln	Leu	Ser	Ile	Gly 90	Ala	Arg	Ser	Leu	Pro 95	

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 <212> PRT  
 <213> homo sapiens

<400> 42

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Gly	Leu	Thr	Ser 20	Ser	Gly	Asn	Ile	Thr 25	Phe	Ser	Trp	Ala	Glu 30	Met	Leu
Leu	Pro	Ala 35	Leu	Lys	Gln	His	Ser 40	Val	Leu	Lys	Thr	Ser 45	Trp	Gln	Ala
Pro	Gly 50	Ser	Asn	Thr	Gln	Leu 55	Pro	Asn	Met	Met	Leu 60	Ile	Leu	His	Glu

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Phe 65	Ala	Thr	Gln	Phe	Ser 70	Arg	Val	Cys	Thr	Pro 75	Pro	Leu	Trp	Ala	Gly 80
Glu	Pro	Gly	Pro	Gly 85	Leu	Arg	Arg	Leu	Gln 90	Ala	Leu	Ala	Asp	Val 95	Ala
Leu	His	Asn	Asn 100	Gly	Asn	Glu	Lys	Val 105	Thr	Pro	Tyr	Val	Arg 110	Gln	Ala
Leu	Lys	Glu 115	Ser	Glu	Tyr	Pro	Asn 120	Pro	His	Lys	Arg	Arg 125	Gly	Thr	Leu
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<210> 43  
 <211> 79  
 <212> PRT  
 <213> homo sapiens

<400> 43

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Asp	Met	Leu	Ser 20	Arg	Ser	Lys	Arg	Tyr 25	Ile	Trp	Gln	Leu	Phe 30	Leu	Glu
Lys	Ala	His 35	Trp	Val	Ser	Phe	Ile 40	Thr	Phe	Leu	Ser	Phe 45	Phe	Gly	Phe
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Val 65	Val	Ala	Gln	Ser	Gln 70	Leu	Ile	Ala	Ser	Ser 75	Ile	Thr	Gln	Ala	

<210> 44  
 <211> 82  
 <212> PRT  
 <213> homo sapiens

<400> 44

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Gly	Leu	Thr	Ser 20	Ser	Gly	Asn	Ile	Thr 25	Phe	Ser	Trp	Ala	Glu 30	Met	Leu
Leu	Pro	Ala 35	Leu	Lys	Gln	His	Ser 40	Val	Leu	Lys	Thr	Ser 45	Trp	Gln	Ala
Pro	Gly 50	Ser	Asn	Thr	Gln	Leu 55	Pro	Asn	Met	Met	Leu 60	Ile	Leu	His	Glu
Phe 65	Ala	Thr	Ser	Trp	Leu 70	Pro	Arg	Leu	Gln	His 75	Ser	Ala	Val	Gly	Thr 80

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Gln Ser

<210> 45  
 <211> 68  
 <212> PRT  
 <213> homo sapiens

<400> 45

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Gln	Leu	Ser	Cys 20	Arg	Gly	Phe	Ser	Asp 25	Gln	Phe	Ser	Arg	Val 30	Cys	Thr
Pro	Pro	Leu 35	Trp	Ala	Gly	Glu	Pro 40	Gly	Pro	Gly	Leu	Arg 45	Arg	Leu	Gln



<210> 49  
 <211> 36  
 <212> PRT  
 <213> homo sapiens

<400> 49

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Cys	Arg	Arg	Gly	Glu	Arg	Met	Leu	Cys	Phe	His	Gly	Pro	Leu	Thr	Leu
			20					25					30		
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		35													

<210> 50  
 <211> 26  
 <212> PRT  
 <213> homo sapiens

<400> 50

Lys	His	Ser	Ile	Arg	Ser	Pro	Leu	Leu	Gln	Phe	Ser	Leu	Arg	Ala	Pro
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<210> 51  
 <211> 25  
 <212> PRT  
 <213> homo sapiens

<400> 51

Glu	Ala	His	Glu	Ser	Thr	Ala	Phe	Ala	His	Pro	Ser	Cys	Asn	Leu	Ala
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Phe	Gly	Leu	Leu	Leu	Arg	Arg	His	Leu							
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<210> 52  
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 <212> DNA  
 <213> homo sapiens

<400> 52

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			20					25					30		

Thr	Leu	Val 35	Val	Lys	Lys	Ser	Asp 40	Val	Glu	Ala	Ile	Phe 45	Ser	Lys	Tyr
Gly	Lys 50	Ile	Val	Gly	Cys	Ser 55	Val	His	Lys	Gly	Phe 60	Ala	Phe	Val	Gln
Tyr 65	Val	Asn	Glu	Arg	Asn 70	Ala	Arg	Ala	Ala	Val 75	Ala	Gly	Glu	Asp	Gly 80
Arg	Met	Ile	Ala	Gly 85	Gln	Val	Leu	Asp	Ile 90	Asn	Leu	Ala	Ala	Glu 95	Pro
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Asp	Arg 130	Met	Tyr	Ser	Tyr	Pro 135	Ala	Arg	Val	Pro	Pro 140	Pro	Pro	Pro	Ile
Ala 145	Arg	Ala	Val	Val	Pro 150	Ser	Lys	Arg	Gln	Arg 155	Val	Ser	Gly	Asn	Thr 160
Ser	Arg	Arg	Gly	Lys 165	Ser	Gly	Phe	Asn	Ser 170	Lys	Ser	Gly	Gln	Arg 175	Gly
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Lys	Glu	Leu 195	Thr	Gln	Ile	Lys	Gln 200	Lys	Val	Asp	Ser	Leu 205	Leu	Glu	Asn
Leu	Glu 210	Lys	Ile	Glu	Lys	Glu 215	Gln	Ser	Lys	Gln	Ala 220	Val	Glu	Met	Lys
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Glu	Thr	Asn	Val	Lys 245	Met	Glu	Ser	Glu	Gly 250	Gly	Ala	Asp	Asp	Ser 255	Ala
Glu	Glu	Gly	Asp 260	Leu	Leu	Asp	Asp	Asp 265	Asp	Asn	Glu	Asp	Arg 270	Gly	Asp

Asp	Gln	Leu 275	Glu	Leu	Ile	Lys	Asp 280	Asp	Glu	Lys	Glu	Ala 285	Glu	Glu	Gly
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20						25						30			
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		35					40					45			
Ser	Ala	Pro	Pro	Ser	Asp	Ser	Ile	Phe	Thr	Leu	Val	Ser	Ser	Phe	Phe
	50					55					60				
Thr	Glu	Leu	Leu	Leu	Cys	Ser	Ser	Ser	Asp	Leu	Ser	Phe	Phe	Ile	Ser
65					70					75					80
Thr	Ala	Cys	Leu	Leu	Cys	Ser	Phe	Ser	Ile	Phe	Ser	Arg	Phe	Ser	Arg
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	50					55					60				
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Phe	Tyr	Ile	Leu	Met	Lys	Val	Trp	Glu	Val	Tyr	Pro	Leu	Cys	Leu	Phe
				85					90					95	
Ile	Ser	Ala	Leu	Trp	Ser	Ser	Trp	His	Pro	Phe					
			100					105							

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